

WHAT IS CLAIMED IS:

1. A wireless communication apparatus  
5 comprising:  
a multipath detection part which detects a  
state of multipath in said wireless communication  
apparatus; and  
a send part which sends multipath  
10 detection information detected by said multipath  
detection part to a wireless communication apparatus  
at the other end.

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2. A wireless communication apparatus  
comprising:  
a multipath component canceling signal  
20 generation part which generates a signal which  
cancels a multipath component in a wireless  
communication apparatus at the other end on the  
basis of multipath detection information  
representing a state of multipath sent from said  
25 wireless communication apparatus at the other end;  
and  
a send part which sends said signal which  
cancels said multipath component generated in said  
multipath component canceling signal generation part  
30 to said wireless communication apparatus at the  
other end.

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3. The wireless communication apparatus as  
claimed in claim 2, said multipath component

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15                   7. A wireless communication method  
comprising the step of:  
                    a wireless communication apparatus sending  
a signal which cancels a multipath component in a  
wireless communication apparatus at the other end to  
20 said wireless communication apparatus at the other  
end with a send signal.

25                   8. The wireless communication method as  
claimed in claim 7, wherein said signal which  
cancels said multipath component is a signal  
inverted from an interference wave signal generated  
30 from said multipath component in said wireless  
communication apparatus at the other end.

35                   9. A wireless communication method  
comprising the steps of:

a first wireless communication apparatus  
detecting a state of multipath in said first  
wireless communication apparatus;

5       said first wireless communication  
apparatus sending multipath detection information on  
said state to a second wireless communication  
apparatus;

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                said second wireless communication
apparatus receiving said multipath detection
10  information;

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said second wireless communication  
apparatus generating a signal for canceling a  
multipath component in said first wireless  
communication apparatus on the basis of said  
15 multipath detection information; and

said second wireless communication apparatus sending said signal for canceling said multipath component to said first wireless communication apparatus.

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